

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Marco PEYER

Attn: PCT Branch

Application No. New U.S. National Stage of PCT/CH2003/000579

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Docket No.: 126954

For: METHOD OF AUTOMATED GENERATION OF ACCESS-CONTROLLED,
PERSONALIZED DATA AND/OR PROGRAMS

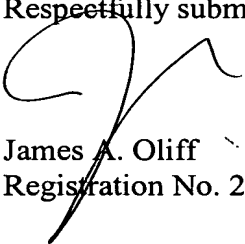
**TRANSLATION OF THE ANNEXES TO THE
INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Attached hereto is a translation of the annexes to the International Preliminary Examination Report (Form PCT/IPEA/409). The attached translated material replaces the material in the specification at page 2, line 1 (starting with the words "this data being...") to page 2, line 32, and at page 6, line 1 (starting with the words "one communication device...") to page 6, line 35. This attached translated material also replaces the claims and drawing.

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this data being transmitted to the user of the system. However, this solution has the drawback, among others, that the access to same logical records cannot be controlled according to different users, or only with difficulty. Thus information cannot be user-specifically handled e.g. already before filtering, which does not allow for any technically sensible solution, in particular with respect to data security, etc.

The publication US 2002/0143961 discloses a system for management of user profiles described in which the user profiles are stored in a central storage. Different service providers can access these centrally stored and administered user profiles or specific data contained therein, whereby the expenditure in human labor can be reduced and the consistency of the data improved. By means of an access protocol, clients can generate the user profiles, administer them, and access them via a network. The described system solves only the problem of management of user profiles, however, without making possible generation of user-specific data within the framework of an offered service.

Described the publication US 2003/0084184 is a communication system for monitoring and control of communication time and/or communication costs, the user being informed about the used and/or still remaining communication time, and communication being interrupted after the limit value has been reached. Communication between the client and the host system is established via a Virtual Session Manager (VSM). The quantity of information exchanged between the mobile client and the host system is decreased considerably, whereby costs for the user are reduced. However this document also does not disclose any user-specific generation of data and/or programs.

It is an object of this invention to propose a new system and method for automated generation of access-controlled, personalized data and/or programs which do not have the above-mentioned drawbacks of the state of the art. In particular, a simple and rational automated system and method

should be proposed for generating data simply and user-specifically (personalized data), administering said data and putting it at the disposal of the respective user.

5 This object is achieved according to the present invention in particular through the elements of the independent claims. Further preferred embodiments follow moreover from the dependent claims and from the specification.

In particular these objects are achieved through the invention in that a user accesses a central unit via a network by means of a communication
10 device, and access-controlled data and/or programs are transmitted to at least one communication device, logical records being generated with data elements divided according to authorization classes and being stored in at least one source database, the user being identified by the central unit and an authorization class being assigned to the user by means of a user database,
15 access request data for access to the logical records of the at least one source database being transmitted from the communication device via the network to the central unit, and the personalized, access-controlled data and/or programs being generated by means of a filter module of the central unit based on the authorization class of the user and the access request data. For generating the
20 personalized data the central unit can comprise e.g. a HTML (Hyper Text Markup Language) and/or HDML (Handheld Device Markup Language) and/or WML (Wireless Markup Language) and/or VRML (Virtual Reality Modeling

one communication device 20,...,24. The network 30/31 can comprise a communication network, such as e.g. a GSM or a UMTS network, or a satellite-based mobile radio network, and/or one or more fixed networks, for example the public switched telephone network, the worldwide Internet or a suitable LAN (Local Area Network) or WAN (Wide Area Network). In particular it also comprises ISDN and XDSL connections. The connection between receiving device 20,...,24 and central unit 40, however, can also take place via different data channels and not just direct via the described communication networks 30/31. The data can be transmitted e.g. between the receiving device 20,...,24 and the central unit 40 via an interface (e.g. a wireless interface, such as an infrared interface or Bluetooth) to a data terminal, and from the data terminal via a communication network, or by means of a removable chipcard of the receiving device 20,...,24, which card is inserted in a data terminal, via this data terminal and a communication network 30/31 to the central unit 40. In the preferred embodiment variant, however, the receiving device 20,...,24 and the central unit 40 each comprise a communications module. By means of the communications module data can be exchanged over the communication network 30/31. As already mentioned, the communication network 30/31 comprises, for example, a mobile radio network, for instance a GSM, GPRS or UMTS network, or another, e.g. satellite-based mobile radio network, or a fixed network, for instance an ISDN network, the public switched telephone network, a TV or radio cable network, or an IP network (Internet Protocol). In particular, in receiving devices 20,...,24 designed as mobile devices the communications module comprises a mobile radio module for communication via a mobile radio network 31 and/or WLAN. Understood by access-controlled data and/or programs are, for example, among other things, digital data such as texts, graphics, pictures, maps, animations, moving pictures, video, QuickTime, sound recordings, programs (software), program-accompanying data and hyperlinks or references to multimedia data. Also belonging thereto are e.g. MPx (MP3) or MPEGx (MPEG4 or 7) standards, as defined by the Moving Picture Experts Group. The communication device 20,...,24 of the user can be, for example, a PC (Personal Computer), TV, PDA (Personal Digital Assistant) or a mobile radio device (in particular e.g. in combination with a broadcast receiver). The logical records 421,...,423 are generated with data elements 4211,...,4214 divided according to authorization classes and are stored in at

Claims

1. A method of automated generation and of making available of access-controlled, personalized data and/or programs, a user (10,...,14) accessing a central unit (40) via a network (30/31) by means of a communication device (20,...,24) and the access-controlled, personalized data and/or programs being transmitted to at least one communication device (10,...,14), wherein

logical records (421,...,423) are generated having data elements (4211,...,4214) divided according to authorization classes and are stored in at least one source database (42),

the user (10,...,14) is identified by the central unit (40), an authorization class being assigned to the user (10,...,14) by means of a user database (45),

access request data for access to the logical records (421,...,423) of the at least one source database (42) are transmitted from the communication device (20,...,24) via the network (30/31) to the central unit (40),

the access-controlled, personalized data and/or programs are generated by means of a filter module (41) of the central unit (40) based on the authorization class of the user (10,...,14) and on the access request data, and are made available to the user (10, ..., 14) in an accessible way.

2. The method according to claim 1, wherein determined by means of the access request data of the user (10,...,14) is to which user and/or user groups the personalized, access-control data and/or programs are transmitted.

3. The method according to one of the claims 1 or 2, wherein the data are filtered according to the authorization class of the respective user

(10,...,14) by means of an additional filter module of the communication device (20,...,24).

4. The method according to one of the claims 1 to 3, wherein clearing data are transmitted from the central unit (40) to a clearing module (43), which clearing data contain billing data for said access to the access-controlled, personalized data and/or programs.

5. The method according to one of the claims 1 to 4, wherein a user profile is created based on the respective user behavior and is stored assigned to the user (10,...,14), the access-controlled, personalized data and/or programs being generated and/or optimized at least partially based on the user profile.

6. The method according to one of the claims 1 to 5, wherein the access-controlled, personalized data and/or programs are stored in a permanent data store (46) of the central unit (40) accessible to the user (10,...,14).

7. The method according to one of the claims 1 to 6, wherein stored in the user profile are user-specific data about network features and/or data about hardware characteristics of the communication device of the user (10,...,14) and/or data about user behavior.

8. The method according to one of the claims 1 to 7, wherein different user profiles for different communication devices (20,...,24) are stored assigned to the user (10,...,14).

9. The method according to one of the claims 1 to 8, wherein the access request data are transmitted to the central unit (40) over a first bidirectional communication channel, the user (10,...,14) being identified, and the access-controlled, personalized data and/or programs are transmitted to the

communication device (20,...,24) in an encrypted manner and unidirectionally over a second communication channel.

10. The method according to claim 9, wherein the first bidirectional communication channel comprises at least a mobile radio network (31) and/or
5 the second unidirectional communication channel comprises at least a broadcast transmitter.

11. The method according to one of the claims 1 to 10, wherein HTML and/or HDML and/or WML and/or VRML and/or ASD are used for generating the personalized data.

10 12. A system for automated generation and for making available of access-controlled, personalized data and/or programs, which system comprises a central unit (40), at least one source database (42) and a plurality of user units (20,...,24), the access-controlled, personalized data and/or programs being transmittable by means of a network (30/31) from the central unit (40) to
15 the user units (20,...,24), wherein

the at least one source database (42) contains logical records (421,...,423) having data elements (4211,...,4214) divided according to authorization classes,

the system comprises an identification module (44) with a user
20 database (45), in which an authorization class is stored assigned to each user (10,...,14),

the central unit (40) comprises a filter module (41), by means of which the access-controlled, personalized data and/or programs are able to be generated based on the authorization class of a user (10,...,14) and based on

access request data transmitted by means of the user unit (20,...,24), and are able to be made available to the user (10, ..., 14) in an accessible way.

13. The system according to claim 12, wherein the access request data of the user (10,...,14) contain destination data with which it is definable to which user and/or user classes the access-controlled, personalized data and/or programs are to be transmitted.

14. The system according to one of the claims 12 or 13, wherein the communication device (20,...,24) further comprises a filter module to filter the data according to the authorization class of the respective user (10,...,14).

15. The system according to one of the claims 12 to 14, wherein the central unit (40) comprises a clearing module (43) for generating clearing data, which clearing data contain billing data for said access to the access-controlled, personalized data and/or programs.

16. The system according to one of the claims 12 to 15, wherein the central unit (40) contains a user profile stored assigned to the user (10,...,14), the access-controlled, personalized data and/or programs being generated and/or optimized at least partially based on the user profile.

17. The system according to one of the claims 12 to 16, wherein the central unit (40) comprises a permanent data store (46), in which the access-controlled, personalized data and/or are stored in a way accessible to the user (10,...,14).

18. The system according to one of the claims 12 to 17, wherein the user profile comprises user-specific data about network features and/or data about hardware characteristics of the communication device of the user (10,...,14) and/or data about user behavior.

19. The system according to one of the claims 12 to 18, wherein the

AMENDED PAGE

central unit (40) comprises different user profiles for different communication devices (20,...,24) of the user (10,...,14).

20. The system according to one of the claims 12 to 19, wherein the system comprises a first bidirectional communication channel for transmitting the access request data to the central unit (40) and a second communication channel, the user (10,...,14) being identifiable via the first bidirectional communication channel, and the access-controlled, personalized data and/or programs are transmittable to the communication device (20,...,24) in an encrypted manner and unidirectionally over the second communication channel.

21. The system according to claim 20, wherein the first bidirectional communication channel comprises at least a mobile radio network (31) and/or the second unidirectional communication channel comprises at least a broadcast transmitter.

22. The system according to one of the claims 12 to 21, wherein the system comprises a data module for generating personalized data in HTML and/or HDML and/or WML and/or VRML and/or ASD format.